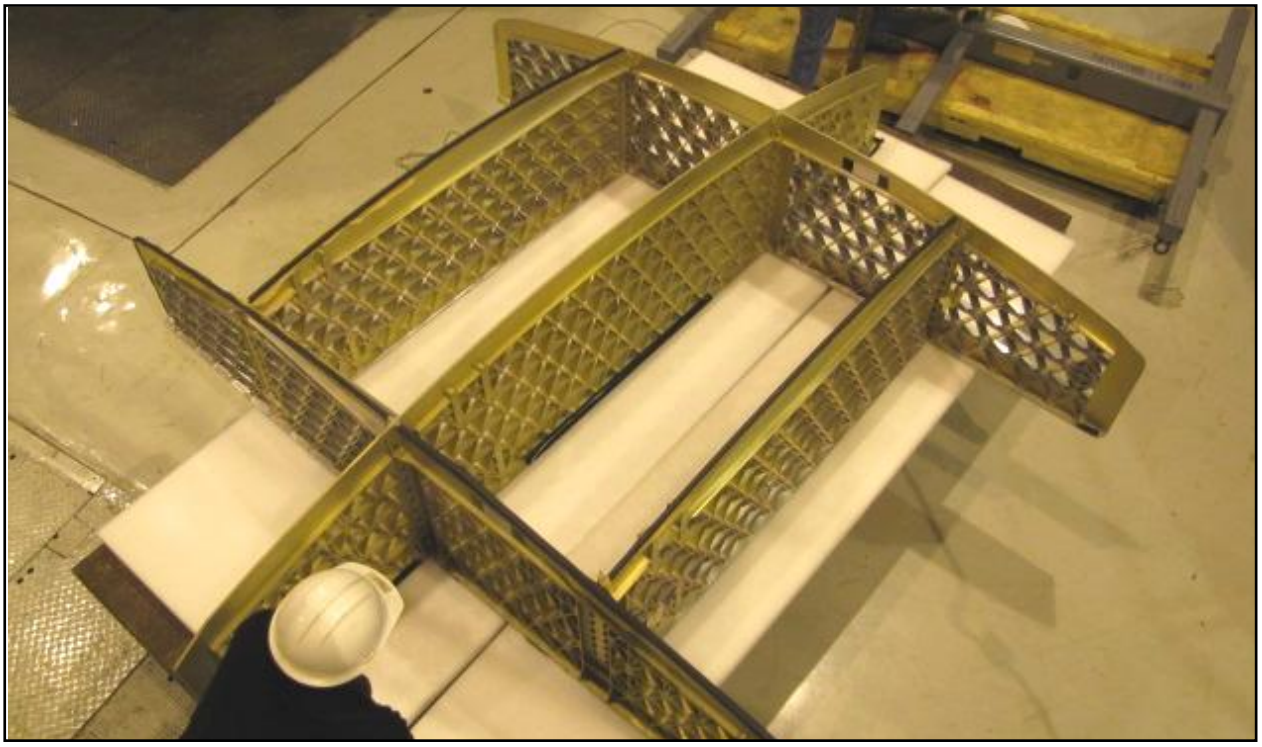
ORION
CREW EXPLORATION VEHICLE

WEEKLY ACCOMPLISHMENTS

01.22.10

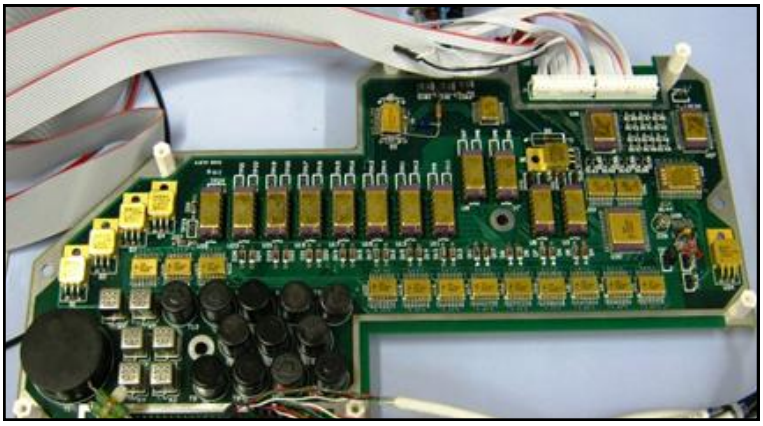


Shown above is the completion of the wet fastening of all six sections of the Heatshield backbone stiffener assembly of the Orion Crew Module ground test article at the Michoud Assembly Facility (MAF) in New Orleans, Louisiana. The completed assembly was relocated to the main assembly area where strain gauge installation will begin.

Progress continued on the Ground Test Article Thermal Protection System (TPS) Composite Heatshield. Shown right is the installation of the heatshield core and completion of the core splice.

Installation of the working display units in the low fidelity mockup at Johnson Space Center has been completed (shown in banner.) The display units are capable of showing six different displays including a Primary Flight Display, Environmental Control and Life Support Display and an eProcedure Display.

The Launch Abort System (LAS) Safe and Arm System was installed (in the LAS canopy structure) at White Sands Missile Range in support of the upcoming Pad Abort 1 ground test. The Safe and Arm System is similar to what is currently used in the Space Shuttle and serves as a final "check off" preventing the motors from being accidently ignited.



The BB5 3G Load Cell Board (an electrical component of the Low Impact Docking System (LIDS)) is complete and tested on all 12 Channels (shown left .) In addition, two BB5 3G Motor Power Boards have been integrated to test power sharing (bottom left). This hardware testing is a precursor to full-system LIDS engineering development unit testing to occur later this year.